

CONTENTS

NO. 1 FEBRUARY 2002

- XICHE HU, THORSTEN RITZ, ANA DAMJANOVIĆ, FELIX
AUTENRIETH AND KLAUS SCHULTEN. Photosynthetic apparatus
of purple bacteria 1
- SHIMON MAROM AND GODED SHAHAF. Development, learning and
memory in large random networks of cortical neurons: lessons
beyond anatomy 63
- KAREN M. VASQUEZ AND PETER M. GLAZER. Triplex-forming
oligonucleotides: principles and applications 89

NO. 2 MAY 2002

- STEVEN S. PLOTKIN AND JOSÉ N. ONUCHIC. Understanding protein
folding with energy landscape theory. Part I: Basic concepts 111
- LILIAN C. FRANÇA, EMANUEL CARRILHO AND TARSO B. L. KIST.
A review of DNA sequencing techniques 169
- OBITUARY: Max Perutz (by David Blow) 201

NO. 3 AUGUST 2002

- STEVEN S. PLOTKIN AND JOSÉ N. ONUCHIC. Understanding protein
folding with energy landscape theory. Part II: Quantitative aspects 205
- ROBERT G. SHULMAN, FAHMEED HYDER AND DOUGLAS
L. ROTHMAN. Biophysical basis of brain activity: implications for
neuroimaging 287

NO. 4 NOVEMBER 2002

- FRANK GABEL, DOMINIQUE BICOUT, URSULA LEHNERT, MOEAVA
TEHEL, MARTIN WEIK AND GIUSEPPE ZACCAI. Protein dynamics
studied by neutron scattering 327
- ANDREAS BARTH AND CHRISTIAN ZSCHERP. What vibrations tell us
about proteins 369
- EMMANUELLE DELAGOUTTE AND PETER VON HIPPEL. Helicase
mechanisms and the coupling of helicases within macromolecular
machines. Part I: Structures and proteins of isolated helicases 431